## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

 $\Phi_{i,j,\ell}^{m}$ 

1. (currently amended) A ceramic cooktop comprising:

a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;

a thermally sprayed ceramic bonding layer having a thermally sprayed structure adhering to a selected surface of said cooking plate, said bonding layer having a thickness of 10 to 150 micrometers;

an electrically conducting intermediate layer located on said ceramic bonding layer and being connected to ground;

an insulating layer located on said intermediate layer; and an electric heat conductor layer located on said insulating layer.

2. (original) The ceramic cooktop of claim 1, wherein said intermediate layer is made of a material selected from the group formed by TiO<sub>2</sub>, a mixture of Al<sub>2</sub>O<sub>3</sub> having a portion of at least 50 wt.-% of TiO<sub>2</sub>, ZrO<sub>2</sub>, a mixture of Al<sub>2</sub>O<sub>3</sub> with ZrO<sub>2</sub> having a portion of at least 50 wt.-% of ZrO<sub>2</sub>, and a mixture of Al<sub>2</sub>O<sub>3</sub> with TiO<sub>2</sub> and ZrO<sub>2</sub> having a portion of at least 50 wt.-% of TiO<sub>2</sub> and ZrO<sub>2</sub>.

Serial No. 10/649,177

- 3. (original) The ceramic cooktop of claim 1, wherein said bonding layer is made of a material selected from the group formed by aluminum oxide, titanium oxide and mixtures thereof.
- 4. (original) The ceramic cooktop of claim 3, wherein said bonding layer is made of about 97 wt.-% of Al<sub>2</sub>O<sub>3</sub> and about 3 wt.-% of TiO<sub>2</sub>.
- 5. (original) The ceramic cooktop of claim 1, wherein said insulating layer consists of a material selected from the group formed by cordierite, mullite, and mixtures thereof.
- 6. (original) The ceramic cooktop of claim 1, wherein said bonding layer has a thickness of about 30 to 100  $\mu$ m.
- 7. (original) The ceramic cooktop of claim 1, wherein said bonding layer has a thickness of about 40 to 70  $\mu$ m.
  - 8. (currently amended) A ceramic cooktop comprising:

a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;

a thermally sprayed ceramic bonding layer having a thermally sprayed structure adhering to a selected surface of said cooking plate;

an electrically conducting intermediate layer located on said ceramic bonding layer and being connected to ground;

an insulating layer located on said intermediate layer; and an electric heat conductor layer located on said insulating layer.

9. (Currently amended) A ceramic cooktop comprising:

a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;

a thermally sprayed ceramic bonding layer having a thermally sprayed structure adhering to a selected surface of said cooking plate;

an intermediate layer adhering to said bonding layer; an insulating layer located on said intermediate layer; and an electric heat conductor layer located on said insulating layer.

- 10. (original) The ceramic cooktop of claim 8, wherein said bonding layer has a thickness of about 10 to 150  $\mu$ m.
- 11. (original) The ceramic cooktop of claim 8, wherein said bonding layer has a thickness of about 30 to 100  $\mu$ m.
- 12. (original) The ceramic cooktop of claim 8, wherein said bonding layer has a thickness of about 40 to 70  $\mu$ m.

- 13. (original) The ceramic cooktop of claim 8, further comprising an electrically conductive intermediate layer applied between said bonding layer and said insulating layer.
- 14. (original) The ceramic cooktop of claim 13, wherein said electrically conductive intermediate layer is configured as an oxide layer that is rendered electrically conductive by oxygen loss during thermal spraying.
- 15. (original) The ceramic cooktop of claim 13, wherein said intermediate layer consists of a cermet material having a metal matrix comprising at least one component selected from the group formed by nickel, cobalt and chromium.
  - 16. (cancelled)
  - 17. (currently amended) A ceramic cooktop comprising:

a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;

an electric heat conductor layer;

a thermally sprayed an insulating layer having a thermally sprayed structure arranged between said cooking plate and said heat conductor layer; and

an annular groove provided on a surface of said cooking plate facing said layers, said annular groove surrounding a rim area of said insulating layer.